CONTENTS TO VOLUME 58

Computational physics	*Issue*	*Page*
Berretti, A. and A.D. Sokal Vectorized program for Monte Carlo simulation of self-avoiding walks	1&2	1
Friedman, R.S., M.J. Jamieson and S.C. Preston On the numerical solution of coupled eigenvalue differential equations arising in molecular spectroscopy	1&2	17
Brecht, S.H. and J.R. Ferrante Vortex-in-cell calculations in three dimensions	1&2	25
Pais, V.A. and A. Caruso A collisional method to correct the mesh distortion in two-dimensional Langrangian hydrocodes	1&2	55
Wang, C.-J. and C.-H. Wu Concurrent and vectorized Monte Carlo simulation of the evolution of an assembly of particles increasing in number	1&2	63
Wilson, S. Universal basis sets and Cholesky decomposition of the two-electron integral matrix	1&2	71
Budinich, M. and S. Esquivel An efficient algorithm for charged tracks pattern recognition	1&2	83
Humpert, B. A comparitive study of neural network architectures	3	223
Jaquet, R. Application of the finite element method to eigenvalue problems. I. One dimensional calcualtions using optimized elements	3	257
Knowles, I.G. A linear algorithm for calculating spin correlations in hadronic collisions	3	271

Computer programs in physics		
Kreuzberger, T., W. Kummer and M. Schweda SUSYCAL – symbolic computations in supersymmetric theories	1&2	89
Baillie, C.F., D.A. Johnston and R.D. Williams Computational aspects of simulating dynamically triangulated random surfaces	1&2	105
Papageorgiou, D.G. and I.E. Lagaris MERLIN-2.1 DOUBLE PRECISION	1&2	119
Morgan, W.L. and B.M. Penetrante ELENDIF: a time-dependent Boltzmann solver for partially ionized plasmas	1&2	127

Tanaka, H.
Numerical calculation of helicity amplitudes for processes involving massive fermions 1&2 153

Heck, L., D.R. Flower and G. Pineau des Forêts
A computer program for calculating the structure of magnetohydrodynamical shocks in interstellar clouds 1&2 169

Levine, M.J.S.
A LaTeX graphics routine for drawing Feynman diagrams 1&2 181

Ayala, C. and M. Baig
Generation and analysis of high order strong coupling series for SU(2) lattice gauge theory 1&2 199

Purrington, R.D.
Particle-vibration coupling model for odd-*A* nuclei 1&2 211

Hansen, J.P.
General subroutines for the calculation of atomic and molecular two-centre integrals 1&2 217

Abdelmalek, N.N.
A program for the solution of ill-posed linear systems arising from the discretization of the Fredholm integral equation of the first kind 3 285

Kniehl, B.A.
QCD corrections to vector boson self-energies in the standard model 3 293

Ernenwein, R., M.-M. Rohmer and M. Bernard
A program system for ab initio MO calculations on vector and parallel processing machines. I. Evolution of integrals 3 305

Schmid, U., N.C. Myers and J.A. Van Vechten
VIDSIM – a Monte Carlo program for the simulation of atomic diffusion in diamond and zinc-blende structures 3 329

Skála, L.
A new version of the program for the generation of symmetry-adapted functions for molecular calculations 3 343

Dyall, K.G., I.P. Grant, C.T. Johnson, F.A. Parpia and E.P. Plummer
Erratum notice. GRASP: a general purpose relativistic atomic program (ABJN – CPC 55(1989)425) 3 345